

# Resource Allocation Task Force report

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## Mandate:

- **Collect information about best practices** and processes that are already in place at a national level
- **Propose processes around central management of demand and offer of pooled NGI resources**
- **Identify the needs of development** in the existing operational tools for the automation of the identified processes
- **Coordinate the implementation of a testbed** with the involvement of VOs and Resource Providers

## Members:

- **NGIs:** NGI\_PL, NGI\_France, NGI\_IberGrid, NGI\_IT, NGI\_AEGIS, NGI\_CZ
- **VOs:** WeNMR, BIOMED, COMPCHEM VO, (DCH-RP)?,

- Wiki page
  - [https://wiki.egi.eu/wiki/Resource\\_Allocation\\_Task\\_Force](https://wiki.egi.eu/wiki/Resource_Allocation_Task_Force)
- Mailing list:
  - [resource-allocation@mailman.egi.eu](mailto:resource-allocation@mailman.egi.eu)
- Meetings page:
  - <https://indico.egi.eu/indico/categoryDisplay.py?categId=86>

- 17.01.2013
  - <https://indico.egi.eu/indico/conferenceDisplay.py?confId=1298>
- NGI\_PL and NGI\_IT proposal
- EGI high level proposal
- Discussion: VO and NGI requirements gathering

The main RA goals are:

- **Attract new users and allocate them some grid resources**
- **Provide users with a simplified procedure** to find grid resources for their needs and by means of a central unique reference point



## **EGI Provider:**

- NGIs that can directly decide on resource allocation on a pool of resources on specific sites
- NGIs that can coordinate resources allocation with their sites
- sites that are identified to allocate resources by passing its NGI

## **EGI Customers**

1. Regional - Existing or New VO
2. International - Existing or New VO



## Regional VO

- Should be up to NGIs to help the VO and allocate resources within NGI
- EGI provides single point of contact for resource allocation for Customers

## International VO

- EGI provides
  - Single point of contact for resource allocation for their Customers
  - Negotiation and signing procedures
  - Monitoring
  - Reporting

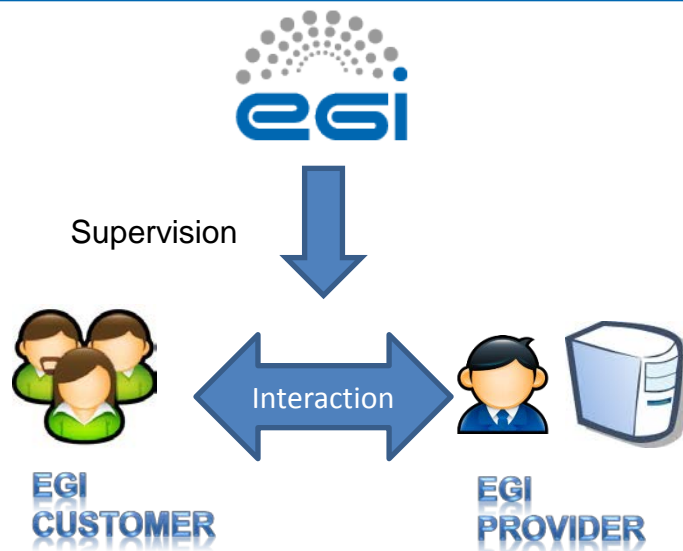
1. Open market
2. Broker
3. Freedom of choice

Models determines the role of actors and EGI in the process.

**We can apply different models for different requests:**

- Mature VO vs New VO
- „Big” request vs „Small” request  
or NGIs.

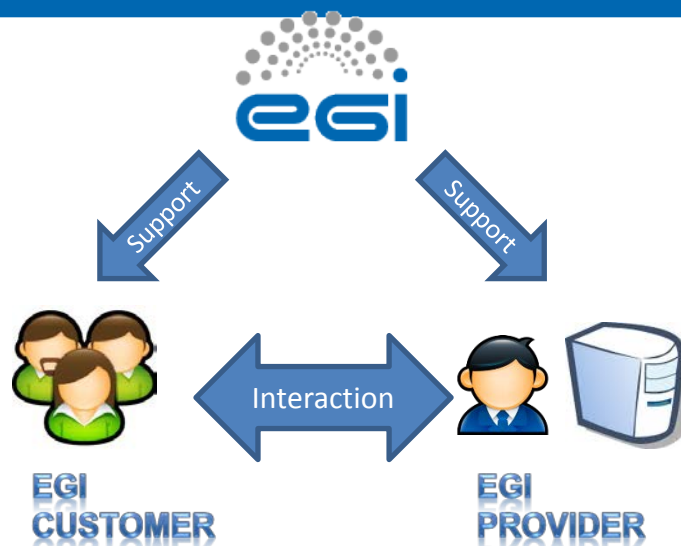
- EGI Providers' resources and EGI Customers' requests are published on an open market – are visible for everyone.
- EGI regulates and supervises the market. It determines the rules (e.g. procedures) of the market and acts as a referee in case of agreement violation/negotiations.





- EGI Providers' resources and EGI Customers' requests are visible to EGI.
- EGI matches EGI Providers' resources to EGI Customers' requests needs.
- Interaction EGI Customer  $\leftrightarrow$  EGI provider limited.

- EGI Providers' resources and EGI Customers' requests transparent - visible for everyone.
- The parties have freedom to decide how they want to negotiate resources and under which conditions (no regulation on EGI side).
- EGI role is to support EGI Providers and/or EGI Customers only if needed. E.g. providing tool for resource allocation, helping in request fulfilment, specialised requests etc.





EGI  
CUSTOMER

Request  
submission

Negotiation

Contract

Running



Request  
verification

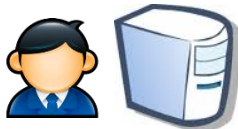
Negotiation

Contract

Provision

Monitoring

Final  
reporting and  
evaluation



EGI  
PROVIDER

## Next steps:

- Contact with PRACE and ask for document describing RA process in PRACE.
- Prepare for second phone call (24.01.2013):
  - For each RA models identify:
    - pros
    - cons
    - use cases when the model can be used
    - role of NGI, EGI and RP in each model.
    - a place for scientific review